

Science Education

The Official Organ of the National Association for Research in
Science Teaching, the National Council on Elementary
Science, and the Science Association
of the Middle States

Copyright 1939 by Science Education, Inc.

EDITORIAL COMMITTEE

CHARLES J. PIEPER, *Editor*

New York University,
Washington Square East,
New York, N. Y.

CLARENCE M. PRUITT, *Business Manager and
Assistant Editor of Abstracts and New
Publications*

College Station,
Stillwater, Oklahoma.

FRANCIS D. CURTIS, *Assistant Editor of Digests
of Unpublished Investigations*

School of Education,
University of Michigan,
Ann Arbor, Michigan.

REPRESENTATIVES OF AFFILIATED ASSOCIATIONS

W. L. EIKENBERRY—*Science Association of the Middle States*

E. S. OBOURN—*National Association for Research in Science Teaching*

LOIS M. SHOEMAKER—*National Council on Elementary Science*

VOLUME 23—Numbers 1 to 7

JANUARY—DECEMBER, 1939

SCIENCE EDUCATION, INCORPORATED
525 WEST 120 STREET
NEW YORK CITY

Aims
and
Sci
Wil
Atoms
Pro
tion

Babitz
in
ciple
Bartle
ing
Beauc
tion
Bingh
Bio
Biolog
W.
Biolog
the
Thr
Blanc
Sci
265
Bloug
Lib
Bloug
Sci
Braun
Ex
in
Sci
Bray
59-
Brew
Ele
Broad
Lo
Brown
Ph
Sci
Burn
Em

Carp
cas
Chem
ver
L.
Chem
tifi
Sci
Chris
of
Sci

Published
January, February, March, April, October,
November and December, 1939

BOYD PRINTING CO., INC.,
ALBANY, N. Y.

INDEX TO VOLUME 23

ARTICLES

- Aims and Objectives Governing Physics Survey and Physical Science Survey and Physical Science Survey Courses at the College Level, Willard Geer, 261-264
- Atoms, 90-Ton "Cannon" Smashes Tiny, Work Projects Administration, Division of Information, 385-388
- Babitz, Milton, and Keys, Noel, An Experiment in Teaching Pupils to Apply Scientific Principles, 367-370
- Bartlett, W. L., A Project in Purposeful Reading in Biology, 68-70
- Beauchamp, Wilbur L., Teaching a Generalization of Science, 9-10
- Bingham, N. Eldred, Teaching Nutrition in Biology Classes, 188-194
- Biology, A Project in Purposeful Reading in, W. L. Bartlett, 68-70
- Biology, Classes, A Plan to Meet the Needs of the Students at Grant Community High School Through, John Conrad Christ, 219-220
- Blanchet, Waldo W. E., A Study of Natural Science Survey Courses in Negro Colleges, 265-274
- Blough, Glenn O., New Books for Your Science Library, 34-37
- Blough, Helen Dolman, Methods of Teaching Science to Children, 11-17
- Braun, J. Werner, The Value and Method of Experimentation with *Drosophila Melanogaster* in the Teaching of Biology in Secondary Schools, 381-385
- Bray, Willis J., Science in General Education, 59-62
- Brewer, Lyle, Radio as an Aid to Instruction in Elementary Science, 63-68
- Broadcasts in Science, Evaluation of School, Louis M. Heil, 1-4
- Brown, H. Emmett, The Development of a Physical Science Course for the Lincoln School, 145-157
- Burnett, R. Will, Vitalizing the Laboratory to Encourage Reflective Thinking, 136-141
- Carpenter, Harry A., Do Science Radio Broadcasts Pay?, 299-304
- Chemistry, The Lecture-Demonstration Method versus Individual Laboratory Work in, Albert L. Elder, 209-215
- Chemistry Topic, The Correlation between Scientific Attitude and Factual Knowledge in a High School, William B. Reiner, 327-331
- Christ, John Conrad, A Plan to Meet the Needs of the Students at Grant Community High School Through Biology Classes, 219-220
- Classroom as a Means of Stimulating Interest in Science, The, Rosalind M. Zapf, 206-209
- Club Activities, Teaching Scientific Procedures and Research Techniques through, Lee R. Yothers, 256-260
- Concepts, The Determination of the Meanings Which Students of Science at Different Grade Levels Associate with Selected Scientific, Elwood J. Winters, 331-335
- Croxton, W. C., What Can the Elementary School Contribute in a Continuous Science Program, 5-9
- Curriculum for the Elementary School, The, Anna M. Gemmill, 27-30 -
- Curriculum in Science for the Elementary School, Some Necessary Considerations in Constructing a, Joe Young West, 22-27 -
- Davis, Ira C., A New Science Program in the Making, 142-144
- Davis, Warren M., A Science Test Designed to Teach and Measure Outcomes other than Memorization of Factual Information, 371-372
- DiDomenico, Patrick, Sound: A Student Teacher's First Lessons, 278-281
- Edwards, Lon E., and Robertson, M. L., The Construction of a Scale for the Determination of the Scientific Attitude "Sensitive Curiosity," 198-206
- Electric Circuits, O. E. Underhill, 71-78
- Elementary Grades?", Here's an Answer to the Question, "How Should Science be Taught in the, David W. Russell, 38-42
- Elementary School Contribute in a Continuous Science Program, What Can the, W. C. Croxton, 5-9
- Elder, Albert L., The Lecture-Demonstration Method versus Individual Laboratory Work in Chemistry, 209-215
- Exact Knowledge, Toward More, Reuben T. Shaw, 359-360
- Geer, Willard, Aims and Objectives Governing Physics Survey and Physical Science Survey Courses at the College Level, 261-264
- Gemmill, Anna M., The Curriculum for the Elementary School, 27-30
- General Science, A Comparison of Three Types of Teacher Activity in Directing the Study of, Myron S. Olson and Paul E. Kamby, 304-308
- General Science, A Model Lesson in, Maitland P. Simmons, 133-136
- General Science Projects, Evaluation, Maitland P. Simmons, 379-381
- Generalization of Science, Teaching a, Wilber L. Beauchamp, 9-10

- Haupt, G. W., A Neglected Factor in the Teaching of Elementary Science, 31-34
- Haydon, Mrs. Rosa Navarro de, Montalvo, Mr. Andres, and Master, Mrs. Maria A. Ruizanchez de, Curricular Developments in the Teaching of Science in Puerto Rico, 335-342
- Heil, Louis M., Evaluation of School Broadcasts in Science, 1-4
- Hitchcock, Richard C., The Nature of Lecture Demonstrations in Physics, 313-327
- Hive, An Improved Observation, Conrad C. Pressey, 275-277
- Laboratory to Encourage Reflective Thinking, Vitalizing the, R. Will Burnett, 136-141
- Laboratory Work in Elementary General Biology in the Secondary School, Abraham Weckstein, 373-379
- Library, New Books for Your Science, Glenn O. Blough, 34-37
- Library, The Science-Laboratory, Emily Barry Walker, 215-218
- Maneval, Roy V., The Relative Value of Sound Motion Pictures and Study Sheets in Science Teaching, 83-86
- Mann, Paul B., Why Not Teach Science Scientifically?, 239-243
- Mental Reactions of Children at Different Grade Levels to Certain Living Animals, An Analysis of the, Rosemary F. Mullen, 361-366
- Methods of Teaching Science to Children, Helen Dolman Blough, 11-17
- Motion Pictures and Study Sheets in Science Teaching, The Relative Value of Sound, Roy V. Maneval, 83-86
- Mullen, Rosemary F., An Analysis of the Mental Reactions of Children at Different Grade Levels to Certain Living Animals, 361-366
- Negro Colleges, A Study of Natural Science Survey Courses in, Waldo W. E. Blanchet, 265-274
- Noll, Victor H., Science as an Organized Field of Study, 119-125
- Nutrition in Biology Classes, Teaching, N. Eldred Bingham, 188-194
- Olson, Myron S., and Kambly, Paul E., A Comparison of Three Types of Teacher Activity in Directing the Study of General Science, 304-308
- Perry, Winifred, Visual Aids for General Science Classes, 244-255
- Persing, Ellis C., Teacher-Made Visual Aids, 195-197
- Physical Science Course for the Lincoln School, The Development of a, H. Emmett Brown, 145-157
- Physics, The Nature of Lecture Demonstrations in, Richard C. Hitchcock, 313-327
- Pressey, Conrad C., An Improved Observation Hive, 275-277
- Problem Solving Abilities in Students, Developing, Edith M. Selberg, 126-130
- Problem Solving Abilities through Science Teaching, Techniques for Developing, George C. Wood, 78-83
- Program in the Making, A New Science, Ira C. Davis, 142-144
- Pruitt, Clarence M., Science Reading Materials for Pupils and Teachers—III, 87-102
- Puerto Rico, Curricular Developments in the Teaching of Science in, Mrs. Rosa de Haydon, Mr. Andres Montalvo, and Mrs. Maria A. Ruizanchez de Master, 335-342
- Radio as an Aid to Instruction in Elementary Science, Lyle Brewer, 63-68
- Radio Broadcasts Pay?, Do Science, Harry A. Carpenter, 299-304
- Reading Materials for Pupils and Teachers—III, Science, Clarence M. Pruitt, 87-102
- Reiner, William B., The Correlation between Scientific Attitude and Factual Knowledge in a High School Chemistry Topic, 327-331
- Report of the Committee of the National Association for Research in Science Teaching Appointed to Cooperate with the College Examination Board, The Committee, 179-187
- Russell, David W., Here's an Answer to the Question "How Should Science Be Taught in the Elementary Grades?", 38-42
- Scale for the Determination of the Scientific Attitude "Sensitive Curiosity," The Construction of a, Lon E. Edwards and M. L. Robertson, 198-206
- Science as an Organized Field of Study, Victor H. Noll, 119-125
- Science in General Education, Willis J. Bray, 59-62
- Science Test Designed to Teach and Measure Outcomes other than Memorization of Factual Information, A, Warren M. Davis, 371-372
- Scientific Principles, An Experiment in Teaching Pupils to Apply, Milton Babitz and Noel Keys, 367-370
- Scottish Schools at the Present Time, The Position of the Teaching of Science in, D. J. S. Sutherland, 308-313
- Secondary Science Department, A Program of Activities Directed Toward Enrichment and Cohesion of the, Lee R. Yothers, 130-133
- Selberg, Edith M., Developing Problem Solving Abilities in Students, 126-130
- Shaw, Reuben T., Toward More Exact Knowledge, 359-360
- Simmons, Maitland P., A Model Lesson in General Science, 133-136
- Simmons, Maitland P., Evaluating General Science Projects, 379-381
- Sound: A Student Teacher's First Lessons, Patrick DiDomenico, 278-281
- Sutherland, D. J. S., The Position of the Teaching of Science in Scottish Schools at the Present Time, 308-313

- Teaching of Biology in Secondary Schools, The Value and Method of Experimentation with *Drosophila Melanogaster* in the, J. Werner Braun, 381-385
 Teach Science Scientifically?, Why Not, Paul B. Mann, 239-243
 Teaching of Elementary Science, A Neglected Factor in the, G. W. Haupt, 31-34
 Underhill, O. E., Electric Circuits, 71-78
 Visual Aids for General Science Classes, Winifred Perry, 244-255
 Visual Aids, Teacher-Made, Ellis C. Persing, 195-197
 Walker, Emily Barry, The Science-Laboratory Library, 215-218
 Weather Forecasting in the Summer Camp, Lou Williams, 17-22
 Weckstein, Abraham, Laboratory Work in Elementary General Biology in the Secondary School, 373-379
 Yothers, Lee R., A Program of Activities Directed Toward Enrichment and Cohesion of the Secondary Science Department, 130-133
 Yothers, Lee R., Teaching Scientific Procedures and Research Techniques through Club Activities, 256-260
 Zapf, Rosalind M., The Classroom as a Means of Stimulating Interest in Science, 206-209

ABSTRACTS

- Abbott, Howard C., Student Equipment in Biology Classes, 105
 Abbott, Roy L., Old Mister High-Power, 226
 Adams, C. S., Some Experiences in Teaching General Chemistry for Its Cultural Value, 105
 Adolescents, The University High School Study of, Symposium, 221
 Adult Learning, Psychological Bases for, Lorge Irving, 389
 Air Records Near Limit, Anonymous, 107
 Air, Riches from the, Anonymous, 111
 Allen, Arthur A., Stalking Birds with a Color Camera, 346
 Allen, Robert I., Science Versus Unemployment, 389-390
 Amateurs, Five "Cardinal Sins" of, Anonymous, 394
 Amazon Delta, Wonder Island of the, Hugh B. Cott, 110
 Americans, The First, C. Bernard Schultz, 109
 Anderson, Howard R., Increased Efficiency in Grading Examinations, 168
 Anderson, Paul L., How to Judge Photographs, 289
 ———, Superstition in Photography, 289
 Andrews, Benjamin R., Consumer Education, 168
 Anesthetics, Frozen Sleep May Replace Ether and Other, Anonymous, 394
 Animals Keep Clean, How, H. B. Bradford, 286
 Animals Live Together, How, Glenn O. Blough, 52
 Anonymous, Air Records Near Limit, 107
 Anonymous, Animated Biology, 105
 Anonymous, Archaeology for the Future Now Being Sealed in Crypts, 167
 Anonymous, Cities Distinguished by Dentists, Best, 389
 Anonymous, Clouds, 394
 Anonymous, Cubic Inch of Dwarf Star Weighs 18,000,000 Pounds, 394
 Anonymous, Direct Current Super-Power, 107
 Anonymous, Find "Extinct" Fish Alive in South African Waters, 290
 Anonymous, Five "Cardinal Sins" of Amateurs, 394
 Anonymous, Frozen Sleep May Replace Ether and Other Anesthetics, 394
 Anonymous, Human Nutrition, 226
 Anonymous, Hydrogen Is Fuel of Stars and Helium Is the Ash, 288
 Anonymous, Insects, 106
 Anonymous, Laws of Science Proved in Easy Tests, 224
 Anonymous, Life in the Future, 346
 Anonymous, Life in the Past, 345
 Anonymous, Lights Turn Battle Against Insect Armies, 108
 Anonymous, Magic Tubes of Daylight, 391
 Anonymous, Making Stereoscopic Movies, 111
 Anonymous, Mayan Diggings Shed Light on America's First Calendar, 287-288
 Anonymous, Metal of the Future has Extraordinary Stiffness, 392
 Anonymous, Miracle of New Color Movies, 391
 Anonymous, New Breeding Methods Produce Midget Mules, 288
 Anonymous, Ocean's Depth Measured by Radio Robot, 108
 Anonymous, Off the "Platter" into your Home, 108
 Anonymous, Print Criticism Department, 226
 Anonymous, Riches from the Air, 111
 Anonymous, Safety Education through Schools, 52

- Anonymous, Salaries of School Employees, 1938-1939, 348
 Anonymous, Science in Easy Tests, 346
 Anonymous, Super-Heavy Elements May Be Stuff of Dense Dwarf Stars, 394
 Anonymous, Sword Swallower X-rayed, 110
 Anonymous, Tax Legislation Affecting State School Revenues, 1934-1938, 348
 Anonymous, The Advance of the Diesel, 110
 Anonymous, The Airbrush in Photography, 111
 Anonymous, The Conquest of the Dead Sea, 110
 Anonymous, The Overweight Hazard, 110
 Anonymous, The Rural Teacher's Economic Status, 170
 Anonymous, The Wonders of Astronomy, 108
 Anonymous, Trick Photos You Can Make, 393
 Anonymous, Versatile Glass, 110
 Antlers, The Puzzle of, F. Fraser Darling, 392
 Ants, C. G. Davis, 345
 Apparatus—Difficult Ideas, Simple, Morris Meister, 105
 Archaeology for the Future Now Being Sealed in Crypts, Anonymous, 167
 Arnold, Dwight L., Testing Ability to Use Data in the Fifth and Sixth Grades, 53
 Astell, Louis A., Significant Aspects of Visual Aids in Chemical Education, 224
 Astronomy of the Ancients, Ernest Cherrington, Jr., 110
 Astronomy, The Wonders of, Anonymous, 108
 Atomic Structure and the Periodic Table, Robert L. Ebel, 105
 Aviation, Symposium, 221
- Bagley, William C., What Should Be the Equipment in the Natural Sciences of Teachers in Other Fields, 170
 Baker, G. Derwood, An Eleventh-Grade Field Study: The Coal Industry, 168
 Barometer, A Direct Method of Demonstrating the Presence of a Vacuum in a Torricelli, Samuel Yacknowitz, 346
 Barton, D. R., How Bright Is the Dog?, 288
 Barton, Donald, Your Name, Please, 350
 Beard, Charles A., A Memorandum from an Old Worker in the Vineyard, 168
 Beaver, Builder of Empire, William H. Carr, 53
 Bees, Interesting Facts about, J. M. Hitchings, 52
 Behavior, Suggested Activities in the Teaching of Human, Charles Kaufman, 224
 Benedict, H. C., Original and Unique the P. and H. Process of Negative Development. That P. and H. Process Is Here Again, 289
 Biological Production and Control, Implications of Our Knowledge Concerning, F. L. Fitzpatrick, 347
 Biology, Animated, Anonymous, 105
 Biology Classes, Student Equipment in, Howard C. Abbott, 105
 Biology, Some Supplementary Materials for the Teaching of, F. C. Ormforff, 106
 Bird Pictures, Better, W. W. Coleman, and F. J. Wilson, 394
 Bird, Roland T., Thunder in His Footsteps, 392
- Birds, Domestic, O. M. Braun, 53
 Birds of the High Seas, Robert Cushman Murphy, 110
 Birds, Our, Florence K. Jenkins, 345
 Birnbaum, Martin, In an African Volcano, 392
 Blough, Glenn O., How Animals Live Together, 52
 Blough, Glenn O., Lessons on Elementary Science, 52
 Blough, Glenn O., Studying Our Natural Resources, 345
 Bogert, C. M., Reptiles Under the Sun, 393
 Bonner, James, The Hormones and Vitamins of Plants, 111
 Botley, C. M., Peculiarities of Sound Waves, 226
 Bowen, Norman L., Geology and Chemistry, 391
 Bradford, H. B., How Animals Keep Clean, 286
 Brauer, Oscar L., Metals and Their Origins, 345
 Braun, O. M., Domestic Birds, 53
 Brodgen, Stanley, Superstition Is Returning, 106
 Brownell, L. W., Nature and Wild Life, 394
 Brown, H. M., Getting Better Pictures with a Candid Camera, 108
 Bryson, H. Courtney, Synthetic Plastics, 287
 Bryson, H. Courtney, Synthetic Plastic II, 287
 Burdick, H. O., and Weaver, D. W., Microphotography, 111
 Bush, Marion M., Suggestions for Teaching a Unit of Work on Silk and Rayon, 346
 Business, Symposium, 287
 Buss, Fred E., Streams and Their Valleys, 345
 Butler, H. D., Why Not Ride Your Hobby to Work, 108
- Calendar, Mayan Diggings Shed Light on America's First, Anonymous, 287-288
 Camera, Getting Better Pictures with a Candid, H. M. Brown, 108
 Camera, Stalking Birds with a Color, Arthur A. Allen, 346
 Camera, The Truth About Your, Herbert C. McKay, 393
 Canaries and Other Cage-Bird Friends, Alexander Wetmore, 109
 Cancer and the Schools, James Mandel, 346
 Carr, William H., Beaver, Builder of Empire, 53
 Carter, Harriet, Saving Our Soils, 108
 Caves, I Explore, Charles E. Mohr, 392
 Chemical Resources of the Southwest, W. A. Felsing, 392
 Chemistry Courses at Brown University, Placement in Beginning, Andrew H. MacPhail and Laurence Foster, 348
 Chemistry for Its Cultural Value, Some Experiences in Teaching General, C. S. Adams, 105
 Chemistry, Hints for Beginners in Amateur, Raymond B. Wailes, 346
 Chemistry Since 1920, Trends in the Organization of High School, Carroll C. Hall, 223-224
 Chemistry, The Teacher of High-School, Martin McGill, 223
 Chemists, Fun with Black Light for Home, Raymond B. Wailes, 346
 Cherrington, Ernest, Jr., Astronomy of the Ancients, 110

- Chick, From Egg to, Maurice E. Kimmel, 53
 Christofferson, H. C., Geometry—A Way of Thinking, 168
 Cities Distinguished by Dentists, Best, Anonymous, 389
 Clothing, Symposium, 106
 Clouds, Anonymous, 394
 Clouds, How to Print in, Jack Powell, 289
 Club, For the Science, Morris Meister, 224
 Coal Industry, An Eleventh-Grade Field Study: The, G. Derwood Baker, 168
 Colbert, Edwin H., A Fossil Comes to Life, 393
 Colbert, Edwin H., Wild Dogs and Tame—Past and Present, 288
 Coleman, W. W., and Wilson, F. J., Better Bird Pictures, 394
 College, Charter for a, Ordway Tead, 349–350
 College Instructor, The, Spencer C. Stanford, 223
 Color Shot, How to Make a, Victor Keppler, 289
 Colton, F. Barrows, The Geography of a Hurricane, 288
 Conklin, Edwin G., Education for Democracy, 389
 Connelley, Russell L., The Telephone and Telegraph, 52
 Consumer Education, Benjamin R. Andrews, 168
 Cooke, Robert Locke, Demonstration versus Laboratory Once Again, 105
 Cooper, Willis, On Having an Objective, 289
 Copper, Symposium, 225
 Correlation of the Marks of Certain High School Subjects with Those in College Physics and College Chemistry, The, C. A. Foster, 222
 Cott, Hugh B., Wonder Island of the Amazon Delta, 110
 Cotton and Linen Fabrics, Notes on, J. Annabel Lochie, 346
 Cottrell, F. G., Complete Control of Plant Growth, 225
 Counts, George, Whose Twilight?, 170
 Cox, R. C., Candid Shots in Office, Store or Factory, 108
 Crime, Symposium, 167
 Culbertson, A. C., Large Wild Mammals of California, 53
 Curran, C. H., On Eating Insects, 290
 Curriculum, Science and the Changing, Charles E. Preston, 221
- Dam, Behind the, Kerry Wood, 393
 Darling, F. Fraser, I Lived with Seals, 290
 ———, The Puzzle of Antlers, 392
 Data in the Fifth and Sixth Grades, Testing Ability to Use, Dwight L. Arnold, 53
 Davis, C. B., Seeds and Nuts, 52
 Davis, C. G., Ants, 345
 Davis, Emily C., A Maze of Superstitions, 288
 ———, The Sphynx Tells All, 394
 ———, To Swing Off to War, 390–391
 Davis, Harry M., Jupiter's Satellites, 290
 ———, Winters Are Not What They Used to Be, 288
 Davis, Watson, Glass from Coal, 394
 Dead Sea, The Conquest of the, Anonymous, 110
- Degering, Ed. F., The Use of Semimicro-Methods in Undergraduate Instruction, 348
 Demashkevich, Michael, More on the Reform of Secondary Education in Germany, 168
 Democracy, Education for, Bertrand Russell, 350
 Democracy, For the Defense of, William F. Russell, 168
 Democratic People Provide for the Selection and Training of Leaders in the Various Walks of Life. How Should a, I. L. Kandel, Leta S. Hollingsworth, and Edward L. Thorndike, 349
 Demonstration Material, Teacher, Symposium, 224
 Demonstration versus Laboratory Once Again, Robert Locke Cooke, 105
 Demonstrations for Science Teachers, More, Symposium, 286
 Diamond in Research, Use of a, Robert Patter, 107
 Diamond, Sidney A., High and Low Key Pictures, 289
 Diesel, The Advance of the, Anonymous, 110
 Difference?, What's the, E. Laurence Palmer, 287
 Direct Current Super-Power, Anonymous, 107
 Diseases, Animals Bring Us, William Wolf, 392
 Dissertation Analysis, Looking 'Em Over ; Irving Lorge, 389
 Divided We Fall, William F. Russell, 170
 Doane, Donald C., What I Want from the Distributor of Educational Films, 167
 Doctor, Nature and the, Peyton Rous, 109
 Dog? How Bright Is the, D. R. Barton, 288
 Dogs and Tame—Past and Present, Wild, Edwin H. Colbert, 288
 Doppler Effect, The, Aaron Spector and Alexander Feldman, 346
 Doughton, Isaac, Man's Place in Nature, 390
 Driscoll, J. P., What You Can Do with the New Magnets, 53
 Dry Ice, Home Tests with, Raymond B. Wailes, 106
 Duncan, Carl D., Termites, 345
 Du Puy, William Atherton, The Forests Today, 287
 Dutton, Laurence, How Photographs Are Reproduced, 289
 ———, The Types of Photographic Papers, 226
 Dye, Life Giving, Jane Stafford, 107
- Earle, Olive, Rugged Individualists of the Plant World, 393
 Earth's Pulse, The, Rev. Joseph Lynch, 109
 Earth Structure and Earth Origin, Kirtley F. Mather, 391
 Ebel, Robert L., Atomic Structure and the Periodic Table, 105
 Editorial, Sources of Energy of the Sun, 225
 Education for Democracy, Edwin G. Conklin, 389
 Education, What's New in, A. W. Hurd, 169
 Egerton, Daniel P., Principles to Be Observed by Teachers, 389
 Eifert, Virginia S., The Story of Fire, 290

- Elementary Grades, What Are Your Opinions about Teaching Science in the, David W. Russell, 53
 Elementary Science, Lessons in, Glenn O. Blough, 52
 Elements May Be Stuff of Dense Dwarf Stars, Super-Heavy, Anonymous, 394
 Engel, Leonard H., Wearing Things Out, 226
 Engineering's Part in the Development of Civilization, Dugald C. Jackson, 389
 England and Canada, Observations on the Objectives and the Teaching of Physics in, John Satterly, 222-223
 Enlarging, 33 Rules for, Alexander Lindey, 226
 Erith, John, 75 Per Cent of Negative Retouching Is Out of Date, 289
 Eskridge, T. J., Jr., Growth in Understanding of Geographic Terms in Grades IV to VII, 111
 Evenden, Howard S., Research in the Field of Normal School and Teachers College Education at Teachers College, 169
 Examination, Examining the, Lucy Orenstein, 349
 Examinations of the College Entrance Examination Board, Science, John M. Stalnaker, 222
 Exceptional Student?, What Shall I Do with My, R. W. Woline, 224
 Exhibits and Projects, Chemistry, Leslie Watters, 225
 Exposure Meters, II, Richard F. Grey, 226
 Exposure—The Indefinite Quantity, William A. J. Hebert, 108
- Fairchild, Herman L., Selenology and Cosmogony, 109
 Federal Aid Issue, Status of the, John K. Norton, 170
 Feldman, Alexander, Humidity and Invisible Water Vapor, 346
 Felsing, W. A., Chemical Resources of the South-West, 392
 Film Production in the Schools, Hardy R. Finch, 167
 Films, What I Want from the Distributor of Educational, Donald C. Doane, 167
 Finch, Elmer A., Second Graders Learn Photography, 52-53
 Finch, Hardy R., Film Production in the Schools, 167
 Fire, The Story of, Virginia S. Eifert, 290
 Fire-Walking, Albert G. Ingalls, 290
 Fish Alive in South African Waters, Find "Extinct," Anonymous, 290
 Fisher, Clyde, The Romance of Mistletoe, 109
 Fishing in Pacific Coast Streams, Leonard P. Schultz, 288
 Fish Out of Water, Ross F. Nigrelli, 392
 Fitzpatrick, F. L., Implications of Our Knowledge Concerning Biological Production and Control, 347
 Flowers Bloom in Winter, Wild, Charles A. Zenkert, 287
 Food, Drug and Cosmetic Act; Plan for a Unit of Work on Cosmetics, The New, Ora Goodrich, 106
 Foods, Marvels in Common, Morton C. Walling, 106
 Footsteps, Thunder in His, Roland T. Bird, 392
 Forests and Parks, National and State, George W. Graves, 345
 Forests Today, The, William Atherton Du Puy, 287
 Fosdick, Raymond B., Report of the Rockefeller Foundation, A Review for 1938, 348
 Fossil Comes to Life, A, Edwin H. Colbert, 393
 Foster, C. A., The Correlation of the Marks of Certain High School Subjects with Those in College Physics and College Chemistry, 222
 Foster, Laurence C. (Chairman), Report of the New England Association of Chemistry Teachers' Committee on College Entrance Examinations, 223
 Frank, O. D., Suggestions for Spring Field Trips, 345
 Friend, Julius W., and Feibleman, James, Society and the Future of Science, 223
 Frogs A-Wooing Go, Karl Maslowski, 394
 Fuel, Symposium, 224-225
 Fuels Seen in Easy Tests, Chemistry of, Raymond B. Wailes, 224
 Furnas, C. C., Man's Use of Materials and Energy, 347-348
 Gas Experiments for Home Experimenters, Raymond B. Wailes, 106
 General Education, Life Science in the New, Paul B. Sears, 347
 General Education, The Physical Sciences and, Duane Roller, 347
 General Education, The Role of the Sciences in, Duane Roller, 221
 Geographic Terms in Grades IV to VII, Growth in Understanding of, T. J. Eskridge, Jr., 111
 Geography, The Teaching of Home, H. H. Hahn, 223
 Geology and Chemistry, Norman L. Bowen, 391
 Geometry—A Way of Thinking, H. C. Christofferson, 168
 Germany, More on the Reform of Secondary Education in, Michael Demashkevich, 168
 Gilbert, Winifred, A Fall Unit on Insects, 53
 Glass from Coal, Watson Davis, 394
 Glass Is Made, How Stained, N. W. Gregory Walker, 393
 Glass, The Story of, Willy Ley, 110
 Glass, Versatile, Anonymous, 110
 Glycin, For Results—, J. Stanley Nixon, 289
 Goodrich, Ora, The New Food, Drug and Cosmetic Act; Plan for a Unit of Work on Cosmetics, 106
 Grading Examinations, Increased Efficiency in, Howard R. Anderson, 168
 Grahame, Arthur, Deep-Sea Prospectors Seek Radium from the Ocean Floor, 288
 Grasshoppers and Locusts, Martin W. June, 53
 Graves, George W., National and State Forests and Parks, 345
 Greenland Colony, The Disappearance of the, Vilhjalmur Stefansson, 107
 Greeves-Carpenter, C. F., Plants by Liquid Culture, 110

- Gregory, Sir Richard, Science, Religion, and Social Ethics, 390
- Grey, Richard F., Exposure Meters, II, 226
- Grow Old, Must We, Barclay M. Newman, 107
- Haburton, Ralph, Negative Faults, 289
_____, Print Faults, 393
- Hahn, H. H., The Teaching of Home Geography, 223
- Hall, Carroll C., Trends in the Organization of High School Chemistry Since 1920, 223-224
- Handbook for Student Teachers and the Supervisory Staff, A, Anita D. Laton, et al., 52
- Hanson, O. B., Here Comes Television, 290
- Haver, Ella M., A Unit on Vertebrate Animals, 345
- Hayfever; Hayfever, A Man-made Disease, Weeds, Waste, and, R. P. Wodehouse, 288
- Health of Pennsylvania's Children, Safe-guarding the, Edith Dexter MacBride, 53
- Health Progress in the United States, An Evaluation of the Factors Responsible for Public, Murray P. Horwood, 350
- Hebert, William A. J., Exposure—The Indefinite Quantity, 108
- Helium, The Strange Behavior of, Cecil T. Lane, 392
- Hermann, Edwin G., and Ritchie, Harold S., Winds, 53
- Herne, Hilda, The Discovery of Quinine, 290
- High-Power, Old Mister, Roy L. Abbott, 226
- High School Pupils, One Approach to the Appraisal of the Competence of, Ralph B. Spence, 170
- Hildebrand, J. R., California's Coastal Redwood Realm, 288
- Hitchings, J. M., Interesting Facts about Bees, 52
- Hobby to Work, Why Not Ride Your, H. D. Butler, 108
- Hobby, Your Nature, Donald Culross Peattie, 286
- Home, Off the "Platter" into Your, Anonymous, 108
- Hoodley, H. O., Spotting—the Last Step, 393
- Hopkins, L. Thomas, Emerging Emphases as to Learning, 169
- Hormones and Vitamins of Plants, James Bonner, 111
- Horwood, Murray P., An Evaluation of the Factors Responsible for Public Health Progress in the United States, 350
- Hosiery, A Study Plan on, Catherine Miller, 226
- Housing, Notes on, Ophelia Williams, 226
- Howe, J. Wendell, Domestic Mammals, 345
- Humidity and Invisible Water Vapor, Alexander Feldman, 346
- Humphreys, W. J., Why We Seldom See a Lunar Rainbow, 109
- Hurd, A. W., What's New in Education, 169
- Hurricane, The Geography of, a, F. Barrows Colton, 288
- Ihof, Philip M., Transportation, 53
- Inferiority Complex, Your, Paul Popencoe, 390
- Ingalls, Albert G., Fire-Walking, 290
- Insect Armies, Lights Turn Battle against, Anonymous, 108
- Insects, Anonymous, 106
- Insects, A Fall Unit on, Winifred Gilbert, 53
- Insects, On Eating, C. H. Curran, 290
- I.Q.: A Problem in Social Construction, The, Beth L. Wellman and George D. Stoddard, 170
- Iron, A Unit on, Nora McCarthy, 53
- Iron and Steel, Symposium, 225
- Irrigation and Drainage, Katherine Thomas, 286-287
- Islands, Modern Treasure, Cyrus French Wicker, 288
- Jackson, Dugald C., Engineering's Part in the Development of Civilization, 389
- Jenkins, Florence K., Our Birds, 345
- Jenks, George Edwood, Marvels of Metamorphosis, 109
- Jewitt, Ida A., and Hays, Edna, An Examination of Recent Literature on the Education of Teachers, 169
- Jones, H. Spencer, Is There Life in Other Worlds?, 287
- June, Martin W., Grasshoppers and Locusts, 53
- Jupiter's Satellites, Harry M. Davis, 290
- Kaempffert, Waldemar, Life on Other Planets?, 107
- Kandel, I. L., Hollingworth, Leta S., and Thorndike, L., How Should a Democratic People Provide for the Selection and Training of Leaders in the Various Walks of Life?, 349
- Kandel, I. L., Secondary Education, 349
- Kaufman, Charles, Suggested Activities on the Teaching of Human Behavior, 224
- Kaye, Paul I., Shadow Projection, 346
- Kemp, Donald C., and Laitsch, Charles E., Timberline, 394
- Keppler, Victor, How to Make a Color Shot, 289
- Kimmel, Maurice E., From Egg to Chick, 53
- King, A. K., Enigma of the South, 169
- King, George, Turning White, 53
- Krogmen, Wilton Marion, The Skeleton Talks, 110
- Lane, Cecil T., The Strange Behavior of Helium, 392
- Laton, Anita D. et al., A Handbook for Student Teachers and the Supervisory Staff, 52
- Laton, Anita D., Learning to Use Science in Managing Our Lives, 346-347
- Laws of Science Proved in Easy Tests, Anonymous, 224
- Learning, Emerging Emphases as to, L. Thomas Hopkins, 169
- Lee, Edwin A. (Chairman), Teaching a Man's Job, 167
- Levinson, Horace C., Science Examines Games of Chance, 391
- Ley, Willy, The Story of Glass, 110
- Liberties, Civil, Symposium, 348
- Library, The Elementary Science, E. Laurence Palmer, Byrl Jorgensen, Kellogg, Anna Clark Kennedy, and Eva L. Gordon, 52

- Life in the Future, Anonymous, 346
 Light versus Lighting, Edward Weston, 394
 Lindey, Alexander, 33 Rules for Enlarging, 226
 Livermon, Ruth, The Use of Motion Pictures in an Elementary School, 222
 Lochie, J. Annabel, Notes on Cotton and Linen Fabrics, 346
 Lorge, Irving, Integrity in Research, 390
 ———, Looking 'Em Over: Dissertation Analysis, 389
 ———, Psychological Bases for Adult Learning, 389
 Lorout, Michael, The Size of the Universe, 393
 Lumber, Symposium, 225
 Lunar Rainbow, Why We Seldom See a, W. J. Humphreys, 109
 Lyman, Van Allen, Electric Shock Extracts Venom from Snakes, 287
 Lynch, Rev. Joseph, The Earth's Pulse, 109
 MacBride, Dexter, Edith, Safe-guarding the Health of Pennsylvania's Children, 53
 MacDougall, Lois Miller, How Good Is Your Personality?, 349
 MacPhail, Andrew H., and Foster, Laurence, Placement in Beginning Chemistry Courses at Brown University, 348
 Magic Tubes of Daylight, Anonymous, 391
 Magnets, Mary R. Martin and Earl Studt, 52
 Magnets, What You Can Do with the New, J. P. Driscoll, 53
 Mammals, Domestic, J. Wendell Howe, 345
 Mammals of California, Large Wild, A. C. Culbertson, 53
 Man, The Road to, Erich M. Schlaikjer, 106
 Man's Place in Nature, Isaac Doughton, 390
 Mandel, James, Cancer and the Schools, 346
 Mann, Paul B., Why Teach Science?, 222
 Man's Job, Vocational Guidance and Teaching as a, Symposium, 221
 Martin, Mary R. and Studt, Earl, Magnets, 52
 Maslowski, Karl, Frog A-Wooing Go, 394
 Materials and Energy, Man's Use of, C. C. Furnas, 347-348
 Mather, Kirtley F., Earth Structure and Earth Origin, 391
 McCarthy, Nora A., Unit on Iron, 53
 McGill, Martin, The Teacher of High-School Chemistry, 223
 McKay, Herbert C., The Truth About Your Camera, 393
 McHenry, Roy W., The Physics Problem in Secondary Schools, 223
 McMillion, Ovid Miller, Reindeer Trek, 391-392
 Meister, Morris, For the Science Club, 224
 Meister, Morris, Simple Apparatus—Difficult Ideas, 105
 Metal of the Future Has Extraordinary Stiffness, Anonymous, 392
 Metals and Their Origins, Oscar L. Brauer, 345
 Metamorphosis, Marvels of, George Edwood Jenks, 109
 Method, Scientific, John G. Pilley, 347
 Microphotography, H. O. Burdick and D. W. Weaver, 111
 Microscope, Everyday Jobs for Your, Morton C. Walling, 346
 Microscope, The Super, Gabriele Rabel, 109
 Miller, Catherine, A Study Plan on Hosiery, 226
 Mistletoe, The Romance of, Clyde Fisher, 109
 Mitchell, Wesley C., Science and the State of Mind, 105
 Mohr, Charles E., I Explore Caves, 392
 Money Making Ideas, Stanley N. Tess, 289
 Moore, W. F., Interior Photography for the Amateur, 226
 Motion Pictures in an Elementary School, The Use of, Ruth Livermon, 222
 Movies, Miracle of New Color, Anonymous, 391
 Mules, New Breeding Methods Produce Midget, Anonymous, 288
 Murphy, Robert Cushman, Birds of the High Seas, 110
 Name, Please, Your, Donald Barton, 350
 Natural Sciences of Teachers in Other Fields, What Should Be the Equipment in the, William C. Bagley, 170
 Nature and Wild Life, L. W. Brownell, 394
 Naval Stores Industry in America, History of the, J. Merriam Peterson, 392
 Negative Development. That P. and H. Process Is Here Again, Original and Unique the P. and H. Process of, H. C. Benedict, 289
 Negative Faults, Ralph Haburton, 289
 Negative Retouching Is Out-of-Date, 75 Per Cent of, John Erith, 289
 Newhouse, James, I was a Professor in a Christian College, 167
 Newman, Barclay M., Must We Grow Old?, 107 ———, Sulfamilamide and Sulfapyridine, 393
 Nigrelli, Ross F., Fish Out of Water, 392
 Nixon, J. Stanley, For Results—Glycin, 289
 Noll, Victor H., The Effect of Written Tests Upon Achievement in College Classes: an Experiment and a Summary of Evidence, 169
 Norton, John K., Status of the Federal Aid Issue, 170
 Nutrition, Human, Anonymous, 226
 Objective, On Having an, Willis Cooper, 289
 Ocean's Depth Measured by Radio Robot, Anonymous, 108
 Oerlein, Karl F., Does Laboratory Physics Develop the Scientific Attitude?, 222
 Orenstein, Lucy, Examining the Examination, 349
 Organic Chemistry, Try Your Hand at, Raymond B. Wailes, 224
 Ornforff, F. C., Some Supplementary Materials for the Teaching of Biology, 106
 Overweight Hazard, The, Anonymous, 110
 Palmer, E. Laurence, Creeping, Sprawling, Climbing Plants, 345
 Palmer, E. Laurence, Waterways in Fall, 52 ———, What's the Difference?, 287
 Palmer, E. Laurence, Kellogg, Byrl Jorgensen, Kennedy, Anna Clark, and Gordon, Eva L., The Elementary Science Library, 52
 Past, Life in the, Anonymous, 345

- Patter, Robert, Use of a Diamond in Research, 107
 Pearson, T. Gilbert, Sparrows, Towhees, and Longspurs, 226
 Peattie, Donald Culross, Your Nature Hobby, 286
 Pels, Herbert, The Professional Touch, 289
 Personality?, How Good Is Your, Lois Miller MacDougal, 349
 Peterson, J. Merriam, History of the Naval Stores Industry in America, 392
 Photographic Papers, The Types of, Laurence Dutton, 226
 Photographs Are Reproduced, How, Laurence Dutton, 289
 Photographs, How to Judge, Paul L. Anderson, 289
 Photography for the Amateur, Interior, W. F. Moore, 226
 Photography, Second Graders Learn, Elmer A. Finch, 52-53
 Photography, Superstition in, Paul L. Anderson, 289
 Photography, The Airbrush in, Anonymous, 111
 Photos You Can Make, Trick, Anonymous, 393
 Physics Develop the Scientific Attitude?, Does Laboratory, Karl F. Oerlein, 222
 Physics Problem in Secondary Schools, The, Roy W. McHenry, 223
 Pictures, High and Low Key, Sidney A. Diamond, 289
 Pilley, John G., Scientific Method, 347
 Pittenger, B. F., The General College in Teacher Education, 167
 Planets, Inside the Great, Henry N. Russell, 107
 Planets?, Life on Other, Waldemar Kaempffert, 107
 Plant Growth, Complete Control of, F. G. Cotterell, 225
 Plants by Liquid Culture, C. F. Greeves-Carpenter, 110
 Plants, Creeping, Sprawling, Climbing, E. Laurence Palmer, 345
 Plant World, Rugged Individualists of the, Olive Earle, 392
 Plastics, Synthetic, H. Courtney Bryson, 287
 Plastic II, Synthetic, H. Courtney Bryson, 287
 Platt, H. Henry, Science for Fun, 346
 Polakov, Walter N., The Unemployment in Technology, 106
 Popeno, Paul, Your Inferiority Complex, 390
 Powell, Jack, How to Print in Clouds, 289
 Power, Carleton E., Current Answers to the Question, "What Should the Teacher of Science Know?", 222
 Powers, Samuel Ralph, Improvement of Science Teaching, 347
 ———, Study and Research in the Improvement of Science Teaching, 347
 Preston, Charles E., Science and the Changing Curriculum, 221
 Principles to Be Observed by Teachers, Daniel P. Egerton, 389
 Print Criticism Department, Anonymous, 226
 Print Faults, Ralph Haburton, 393
 Professional Touch, The, Herbert Pels, 289
 Professions, Statutory Status of Six, Symposium, 167
 Professor in a Christian College, I was a, James Newhouse, 167
 Professor, The University, Francis Earl Ray, 223
 Progressive Education Association, The Eight-Year Study of the, Symposium, 168
 Projection, Shadow, Paul I. Kaye, 346
 Quicksilver, Fun with, Raymond B. Wailes, 224
 Quinine, The Discovery of Hilda Herne, 290
 Rabel, Gabriele, The Super Microscope, 109
 Radio: An Elementary Science Teaching Tool, Rose Wyler, 52
 Radio in Education, The, Symposium, 348
 Radium from the Ocean Floor, Deep-Sea Prospectors Seek, Arthur Grahame, 288
 Rath, Louis, Some Evaluations of the Trip, 168
 Ray, Francis Earl, The University Professor, 223
 Redwood Realm, California's Coastal, J. R. Hildebrand, 288
 Reed, Rufus D., The 1937-38 College Chemistry Testing Program, 347
 Reindeer Trek, Ovid Miller McMillion, 391-392
 Renner, George T., Education and the Conservation of Resources, 349
 Report of the New England Association of Chemistry Teachers' Committee on College Entrance Examinations, Laurence C. Foster (Chairman), 223
 Reptiles Under the Sun, C. M. Bogert, 393
 Research, Integrity in, Irving Lorge, 390
 Research in the Field of Normal School and Teachers College Education at Teachers College, Edward S. Evenenden, 169
 Resources, Education and the Conservation of, George T. Renner, 349
 Resources, Studying Our Natural, Glenn O. Blough, 345
 Rockefeller Foundation, 1938, Report of the, Raymond B. Fosdick, 348
 Roller, Duane, The Physical Sciences and General Education, 347
 Roller, Duane, The Role of the Sciences in General Education, 221
 Rous, Peyton, Nature and the Doctor, 109
 Rural Teacher's Economic Status, The, Anonymous, 170
 Russell, Bertrand, Education for Democracy, 350
 Russell, David W., What Are Your Opinions about Teaching Science in the Elementary Grades, 53
 Russell, Henry N., Inside the Great Planets, 107
 ———, What Keeps the Stars Shining?, 393
 Russell, William F., Divided We Fall, 170
 ———, For the Defense of Democracy, 168
 Safety Education, Symposium, 221
 Safety Education through Schools, Anonymous, 52
 Salaries of School Employees, 1938-1939, Anonymous, 348

- Satterly, John, Observations on the Objectives and the Teaching of Physics in England and Canada, 222-223
- Sawyer, Edmund, Signs of Wild Life in Winter, 287
- Schlaikjer, Erich M., The Road to Man, 106
- Schultz, C. Bernard, The First Americans, 109
- Schultz, Leonard P., Fishing in Pacific Coast Streams, 288
- Science Advances in 1938, Science Service Staff, 109
- Science and the State of Mind, Wesley C. Mitchell, 105
- Science Education, Symposium, 286
- Science Examines Games of Chance, Horace C. Levinson, 391
- Science for Fun, H. Henry Platt, 346
- Science in Easy Tests, Anonymous, 346
- Science in Managing Our Lives, Learning to Use, Anita D. Laton, 346-347
- Science, Religion, and Social Ethics, Sir Richard Gregory, 390
- Science Service Staff, Science Advances in 1938, 109
- Science Teaching, Improvement of, Samuel Ralph Powers, 347
- Science Teaching, Study and Research in the Improvement of, Samuel Ralph Powers, 347
- Science, The Changing Values of, R. C. Wallace, 221
- Science Versus Unemployment, Robert I. Allen, 389-390
- Science?, Why Teach, Paul B. Mann, 222
- Seals, I Lived with, F. Fraser Darling, 290
- Sears, Paul B., Life Science in the New General Education, 347
- Secondary Education, I. L. Kandel, 349
- Seeds and Nuts, C. B. Davis, 52
- Selenology and Cosmogeology, Herman L. Fairchild, 109
- Semimicro-Methods in Undergraduate Instruction, The Use of, Ed. F. Degering, 348
- Shells with Your Microscope, Looking at, Morton C. Walling, 346
- Shots in Office, Store or Factory, Candid, R. C. Cox, 108
- Silk and Rayon, Suggestions for Teaching a Unit of Work on, Marion M. Bush, 346
- Skeleton Talks, The, Wilton Marion Krogmen, 110
- Snakes, Electric Shocker Extracts Venom from, Van Allen Lyman, 287
- Social Behavior Patterns and Climate, Raymond H. Wheeler, 390
- Society and the Future of Science, Julius W. Friend and James Feibleman, 223
- Soils, Saving Our, Harriet Carter, 108
- Sound Waves, Peculiarities of, C. M. Botley, 226
- South, Enigma of the, A. K. King, 169
- Sparrows, Towhees, and Longspurs, T. Gilbert Pearson, 226
- Spector, Aaron and Feldman, Alexander, The Doppler Effect, 346
- Spence, Ralph B., One Approach to the Appraisal of the Competence of High School Pupils, 170
- Sphynx Tell All, The, Emily C. Davis, 394
- Spotting—the Last Step, H. O. Hoodley, 393
- Stafford, Jane, Life Giving Dye, 107
- _____, Ouch! That Toothache, 109
- Stalnaker, John M., Science Examinations of the College Entrance Examination Board, 222
- Stanford, Spencer C., The College Instructor, 223
- Stars and Helium Is the Ash, Hydrogen Is Fuel of, Anonymous, 288
- Stars Shining?, What Keeps the, Henry Norris Russell, 393
- Star Weighs 18,000,000 Pounds, Cubic Inch of Dwarf, Anonymous, 394
- Stauffer, M. K., The Winds of March, 287
- Stefansson, Vilhjalmur, The Disappearance of the Greenland Colony, 107
- Stereoscopic Movies, Making, Anonymous, 111
- Streams and Their Valleys, Fred E. Buss, 345
- Sulfanilamide and Sulfapyridine, Barclay Moon Newman, 393
- Sun, Sources of Energy of the, Editorial, 225
- Superstition Is Returning, Stanley Brodgen, 106
- Superstitions, A Maze of, Emily C. Davis, 288
- Superstitious Beliefs among Secondary School Pupils, The Acceptance of, Arthur J. Ter Keurst, 286
- Sword Swallower X-rayed, Anonymous, 110
- Symposium, Aviation, 221
- Symposium, Business, 287
- Symposium, Civil Liberties, 348
- Symposium, Clothing, 106
- Symposium, Copper, 225
- Symposium, Crime, 167
- Symposium, Fuel, 224-225
- Symposium, Iron and Steel, 225
- Symposium, Lumber, 225
- Symposium, More Demonstrations for Science Teachers, 286
- Symposium, Safety Education, 221
- Symposium, Science Education, 286
- Symposium, Statutory Status of Six Professions, 167
- Symposium, Taxes, 225
- Symposium, Teacher Demonstration Material, 224
- Symposium, The Eight-Year Study of the Progressive Education Association, 168
- Symposium, The Radio in Education, 348
- Symposium, The University High School Study of Adolescents, 221
- Symposium, Trends in Education, 348
- Symposium, Vocational Guidance and Teaching As a Man's Job, 221
- Tax Legislation Affecting State School Revenues, 1934-1938, Anonymous, 348
- Taxes, Symposium, 225
- Teacher Education, The General College in, B. F. Pittenger, 167
- Teacher of Science Know?", Current Answers to the Question, "What Should the, Carleton E. Power, 222
- Teachers, An Examination of Recent Literature on the Education of, Ida A. Jewitt and Edna Hays, 169
- Teaching a Man's Job, Edwin A. Lee (Chairman), 167

- Teaching, Relationship between Scholarship and Success in Student, Roscoe L. West and Lycia O. Martin, 169
- Tead, Ordway, Charter for a College, 349-350
- Technology, The Unemployment of, Walter N. Polakov, 106
- Telephone and Telegraph, The, Russell L. Connelley, 52
- Television, Here Comes, O. B. Hanson, 290
- Ter Keurst, Arthur J., The Acceptance of Superstitious Beliefs among Secondary School Pupils, 286
- Termites, Carl D. Duncan, 345
- Tess, Stanley N., Money Making Ideas, 289
- Testing Program, The 1937-1938 College Chemistry, Rufus D. Reed, 347
- Tests Upon Achievement in College Classes: an Experiment and a Summary of Evidence, the Effect of Written, Victor H. Noll, 169
- Thomas, Katharine, Irrigation and Drainage, 286-287
- Timberline, Donald C. Kemp and Charles E. Laitsch, 394
- Toothache, Ouch! That, Jane Stafford, 109
- Transportation, Philip M. Illof, 53
- Trends in Education, Symposium, 348
- Trip, Some Evaluations of the, Louis Raths, 168
- Trips, Suggestions for Spring Field, O. D. Frank, 345
- Twilight?, Whose, George Counts, 170
- Universe, The Size of the, Michael Lorout, 393
- Vertebrate Animals, A Unit on, Ella M. Haver, 345
- Visual Aids in Chemical Education, Significant Aspects of, Louis A. Astell, 224
- Volcano, In an African, Martin Birnbaum, 392
- Wailes, Raymond B., Chemistry of Fuels, Seen in Easy Tests, 224
- _____, Fun with Black Light for Home Chemists, 346
- _____, Fun with Quicksilver, 224
- _____, Gas Experiments for Home Experimenters, 106
- _____, Hints for Beginners in Amateur Chemistry, 346
- _____, Home Tests with Dry Ice, 106
- _____, Try Your Hand at Organic Chemistry, 224
- Walker, N. W. Gregory, How Stained Glass Is Made, 393
- Wallace, R. C., The Changing Values of Science, 221
- Walling, Morton C., Everyday Jobs for Your Microscope, 346
- _____, Looking at Shells with Your Microscope, 346
- _____, Marvels in Common Foods, 106
- _____, What Kind of Wood Is It?, 224
- War, Famine, and Pestilence, J. T. Wigham, 391
- Water, To Swing Off to, Emily C. Davis, 390-391
- Waterways in Fall, E. Laurence Palmer, 52
- Watters, Leslie, Chemistry Exhibits and Projects, 225
- Wearing Things Out, Leonard H. Engel, 226
- Wellman, Beth L., and Stoddard, George D., The I.Q.: A Problem in Social Construction, 170
- West, Roscoe L., and Martin, Lycia O., Relationship between Scholarship and Success in Student Teaching, 169
- Weston, Edward, Light versus Lighting, 394
- Wetmore, Alexander, Canaries and Other Cage-Bird Friends, 109
- Wheeler, Raymond H., Social Behavior Patterns and Climate, 394
- White, Turning, George King, 53
- Wicker, Cyrus French, Modern Treasure Islands, 288
- Wigham, J. T., War, Famine, and Pestilence, 391
- Williams, Ophelia, Notes on Housing, 226
- Winds, Edwin G. Hermanni and Harold S. Ritchie, 53
- Winds of March, The, M. K. Stauffer, 287
- Winter, Signs of Wild Life in, Edmund Sawyer, 287
- Winters Are Not What They Used to Be, Harry M. Davis, 288
- Wodehouse, R. P., Weeds, Waste, and Hayfever; Hayfever a Man-made Disease, 288
- Wolf, William, Animals Bring Us Diseases, 392
- Woline, R. W., What Shall I Do with My Exceptional Student?, 224
- Wood Is It, What Kind of, Morton C. Walling, 224
- Wood, Kerry, Behind the Dam, 393
- Worker in the Vineyard, A Memorandum from an Old, Charles A. Beard, 168
- Worlds?, Is There Life in Other, H. Spencer Jones, 287
- Wyler, Rose, Radio: An Elementary Science Teaching Tool, 52
- Yacknowitz, Samuel B., A Direct Method of Demonstrating the Presence of a Vacuum in a Torricelli Barometer, 346
- Zenker, Charles A., Wild Flowers Bloom in Winter, 287

NEW PUBLICATIONS

- Acres and Steel Mules, Forty, Herman Clarence Nixon, 116
- Agriculture and Farm Life, Harry A. Phillips, Edgar A. Cockefair, and James W. Graham, 227
- Agriculture, Workbook for Elementary, R. A. Renkel, 354
- Alexander, William P., and Cormack, Maribelle, Bruce and Marcia, Woodsman, 293
- Allen, Arthur A., The Golden Plover and Other Birds, 231
- Allen, John S., et al., Atoms, Rocks and Galaxies, 171
- Allen, Paul William, The Story of Microbes, 296

- Ailen, Shirley W., *An Introduction to American Forestry*, 293
- America Begins Again, Katherine Glover, 293-294
- American Institute of the City of New York, The, *How to Organize a Science Club*, 397
- Americans, Wild, Oren Arnold, 117
- Anatomy and Physiology, *Study Guide Test-book in*, Carolyn E. Gray, and Caroline E. Stackpole, 293
- Animal Ecology and Taxonomy, *A Laboratory Introduction to*, Orlando Park, W. C. Allee and V. E. Shelford, 352
- Animal World: Behind the Scenes at the Zoo, Wild, Raymond L. Ditmars and William Bridges, 56
- Animals Without Backbones, Ralph Buchsbaum, 233
- Anonymous, *Health in Colleges: Proceedings of the Second National Conference on College Hygiene*, 174-175
- Anonymous, *Science Booklists for Boys and Girls*, 112
- Ant, Lasius, The Lucky, Nina A. Frey, 397
- Ants and Men, Of, Caryl P. Haskins, 296
- Aptitude Test and Marks in Mathematics and Science, The Relationship Between Scores on the Scholastic, Morris Richard Dicter, 177
- Arnold, Oren, *Wild Americans*, 117
- Astronomy, The Story of, Arthur L. Draper and Marion Lockwood, 295
- Astronomy, William T. Skilling and Robert S. Richardson, 397
- Atlas of the World, Standard, Rand McNally, 173
- Atoms, Rocks and Galaxies, John S. Allen, et al., 171
- Atyeo, Henry C., *The Excursion as a Teaching Technique*, 114
- Austin, Alma H., *The Romance of Candy*, 171
- Automobile and You, Your, Roy A. Weldey, 116
- Avery, Madalyn, *Household Physics*, 178
- Bacteria, The Biography of, Arthur T. Henrici, 356
- Bacteriology, A Textbook of, Thurman B. Rice, 176
- Baer, Marian E., *The Wonders of Water*, 398
- Bailey, Hillary G., *The Story of a Face*, 353
- Baitsell, G. A., *Science in Progress*, 357
- Baker, A. O., and Mills, L. H., *Dynamic Biology*, 396
- Baker, The, M. C. Carey, 397
- Bauer, W. W., and Edgley, Leslie, *Your Health Dramatized*, 227
- Beadnell, C. M., *Dictionary of Scientific Terms*, 297
- Beard, Miriam, *A Translation of Grete de Francesco's The Power of the Charlatan*, 357
- Beauchamp, Wilbur L., Mayfield, John C., and West, Joe Young, *Science Problems, Book II*, 292
- Beebe, William, *Zaca Venture*, 236
- Bell, Eric T., *Man and His Lifebelts*, 229
- Bennett, H. (Editor-in-Chief), *The Chemical Formulary*, 295
- Benson, Clarence H., *Immensity. God's Greatness Seen in Creation*, 114
- Bent, Silas, *Slaves by the Billion*, 115
- Beutner, R., *Life's Beginning on the Earth*, 294
- Bingham, N. Eldred, *Teaching Nutrition in Biology Classes*, 351
- Biological Science, A Survey in, Clarence W. Young, G. Ledyard Stebbins and Clarence John Hylander, 171
- Biology, A Laboratory and Field Guide to, Samuel H. Williams, 176
- Biology, Combined Laboratory Manual and Workbook in, Ray E. Davis and Ira C. Davis, 235
- Biology, Directed Studies in, Ernest O. Hanger and Paul S. Lowe, 234
- Biology, Dynamic, A. O. Baker and L. H. Mills, 396
- Biology of Familiar Things, A, George L. Bush, Allan Dickie, and Ronald C. Runkle, 292
- Biology Tests, General, Ernest O. Hanger and Paul S. Lowe, 234
- Biology Tests, Ray E. Davis and Ira C. Davis, 235
- Biology, Truman J. Moon and Paul B. Mann, 175
- Birds against Men, Louis J. Halle, Jr., 230
- Birds and Their Stories, Strange, A. Hyatt Verrill, 355
- Birds, Bugs and Beasts, The Alphabet of, Henry B. Kane, 112
- Birds of the World, WPA Federal Writers Project, 237-238
- Birds, the Golden Plover and Other, Arthur A. Allen, 231
- Black, Marvin M., *The Pendulum Swings Back*, 173
- Blair, Julian M., *Practical and Theoretical Photography*, 173
- Booklists for Boys and Girls, Science, Anonymous, 112
- Books, Modern Wonder, Symposium, 55
- Brauer, Oscar L., *Exploring the Wonders of Chemistry*, 354
- Briggs, Thomas H., *Improving Instruction*, 298
- Briggs, Thomas H., *Laboratory Techniques in Teaching*, 352
- Brindze, Ruth, *Johnny Get Your Money's Worth*, 115
- Brinkley, Stuart R., *Introductory General Chemistry*, 177
- Brownell, Clifford Lee, Ireland, Allen Gilbert, Giles, Helen Fisher, and Towne, Charles Franklin, *Health and Safety Series*, 55-56
- Bruce, Guy V., *Children's Play-at-Science Series: Book I—World of Air and Water, Book II—Heat, Fire and Fuels*, 54
- Bruguere, Emile, 1939 Photo Almanac, 237
- Brunt, David, *Physical and Dynamical Meteorology*, 398
- Buchsbaum, Ralph, *Animals Without Backbones*, 233
- Bush, George L., Dickie, Allan, and Runkle, Ronald C., *A Biology of Familiar Things*, 292

- Bush, George L. Ptacek, Theodore W., and Kovats, John, Jr., Safety for Myself and Others, 293
- Camera Magazine, Autumn Number, U. S. Symposium, 237
- Candy, The Romance of, Alma H. Austin, 171
- Carey, M. C., The Baker, 397
- Carey, M. C., The Fireman, 397
- Carpenter, Harry A., Bailey, Guy A., and Baker, Mary Louise, Adventures in Science, 351
- Casteret, Norbert, Ten Years Under the Earth, 356
- Carroll, Franklin B., Interpreting Science Series (3 vol.), 395
- Chapman, Frank M., Life in an Air Castle, 297-298
- Chemical Formulary, The, H. Bennett (Editor-in-Chief), 295
- Chemical Pioneers, William Haynes, 398
- Chemical Tables from the Handbook of Chemistry and Physics, Charles D. Hodgman, 298
- Chemistry and Applications, Fundamentals of, Charlotte A. Francis and Edna C. Morse, 397
- Chemistry and You, B. S. Hopkins, R. E. Davis, H. R. Smith, Martin V. McGill and G. M. Bradbury, 397
- Chemistry, An Introduction to, John C. Hogg, 175
- Chemistry, An Outline of First Year College, John R. Lewis, 176
- Chemistry, Applied, Sherman R. Wilson and Mary R. Mullins, 397
- Chemistry, Combined Laboratory Manual and Workbook in, Kenneth E. Conn and Herman T. Briscoe, 235
- Chemistry, Exploring the Wonders of, Oscar L. Brauer, 354
- Chemistry, Introductory General, Stuart R. Brinkley, 177
- Chemistry, Laboratory Manual to Accompany Introductory General, Harold G. Dietrich and Erwin B. Kelsey, 177
- Chemistry Tests, Forms A and B, Kenneth E. Conn and Herman T. Briscoe, 235
- Children, 40,000,000 Guinea Pig, Rachel Lynn Palmer and Isidore M. Alpher, 230
- Children's Play-at-Science Series: Book I—World of Air and Water, Book II—Heat, Fire and Fuels, Guy V. Bruce, 54
- Civilization Builders, Frederick Houk Law, 398
- Clark, John A., Gorton, Frederick Russell, and Sears, Francis W., Physics of Today, 231
- Club Book, The How and Why Club; My, George Willard Frasier, Helen Dolman, Francis Shoemaker and Kathryne Van Noy, 352
- Club, How to Organize a Science, The American Institute of the City of New York, 397
- Collingwood, G. H., Knowing Your Trees, 294
- Collins, A. Frederick, Photography for Fun and Money, 227
- _____, The Radio Amateur's Handbook, 356
- Color and Colors, Mathew Luckiesh, 172
- Color in Action, Ami Mali Hicks, and Catharine Oglesby, 355
- Comstock, Anna Botsford, Handbook of Nature Study, 231-232
- Comstock, John Henry, Comstock, Anna Botsford and Herrick, Glenn W., A Manual for the Study of Insects, 231
- Conn, Kenneth E., and Briscoe, Herman T., Chemistry Tests, Form A and B, 235
- Conn, Kenneth E., and Briscoe, Herman T., Combined Laboratory Manual and Workbook in Chemistry, 235
- Conklin, Groff, All About Houses, 395
- Conrad, Howard L., and Meister, Joseph F., Teaching Procedures in Health Education, 112
- Conservation and the Christmas Season, Elsie Flint Neuner, 54
- Conservation in the United States, A. F. Gustafson, H. Ries, C. H. Guise and W. J. Hamilton, Jr., 293
- Consumer Science, Alfred H. Hausrath, Jr., and John H. Harms, 396-397
- Cook, S. G., and Davis, Ira C., Combined Laboratory Manual and Workbook in Physics, 234
- Cook, S. G., and Davis, Ira C., Physics Tests, 234
- Cosmic Rays, Sparks, Lightning, and, Dayton Clarence Miller, 352-353
- Cosmological Theory, G. C. McVittie, 177
- Country, Wild, F. Fraser Darling, 232
- Craig, John D., Danger Is My Business, 172
- Crawford, Claude G., How to Teach, 358
- Creation, Immensity, God's Greatness Seen in, Clarence H. Benson, 114
- Curtis, Francis D., Investigations of Vocabulary in Textbooks of Science for Secondary Schools, 291
- Curtis, Francis D., Third Digest of Investigations in the Teaching of Science, 291
- Dana, Margaret, Behind the Label, 115
- Danger Is My Business, John D. Craig, 172
- Dantzig, Tobias, Aspects of Science, 232
- _____, Number, The Language of Science, 294-295
- Darling, F. Fraser, Wild Country, 232
- Davis, Lavinia R., Adventures in Steel, 230
- Davis, Ray E., and Davis, Ira C., Biology Tests, 235
- _____, Combined Laboratory Manual and Workbook in Biology, 235
- Dicter, Morris Richard, The Relationship Between the Scores on the Scholastic Aptitude Test and Marks in Mathematics and Science, 177
- Dictionary for Children, A Picture, Garnette Walters and S. A. Courtis, 396
- Die, Never to, Josephine Mayer and Tom Pradeaux, 355-356
- Dietrich, Harold G., and Kelsey, Erwin B., Laboratory Manual to Accompany Introductory General Chemistry, 177
- Ditmars, Raymond L., The Fight to Live, 56
- _____, The Making of a Scientist, 56
- Ditmars, Raymond L., and Bridges, William, Wild Animal World: Behind the Scenes at the Zoo, 56

- Doorly, Eleanor, *The Microbe Man*, 398
 Draffin, Jasper Owen, *The Story of Man's Quest for Water*, 352
 Draper, Arthur L., and Lockwood, Marion, *The Story of Astronomy*, 295
 Dull, Charles E., *Modern Physics*, 396
 Dunlap, Orrin E., Jr., *Marconi, the Man and His Wireless*, 232
 Dyson, Frank, and Woolley, R. v. d. R., *Eclipses of the Sun and Moon*, 298
- Eakle, Arthur S., *Mineral Tables*, 354
 Earth, Life's Beginning on the, R. Beutner, 294
 Earth Lore, S. J. Shand, 172
 Earth, Ten Years under the, Norbert Casteret, 356
 Edge, Rosalie, *Our Nation's Forests*, 113
 Einstein, Albert, and Infeld, Leopold, *The Evolution of Modern Physics*, 174
 Electrons, These Amazing, Raymond F. Yates, 232
 Elementary School Practices, Appraisal of Newer, J. Wayne Wrightstone, 228-229
 Elementary Science, Teaching Aid Bulletins for, Symposium, 54
 Elementary Science Workbooks and Handbook for Teachers, Jack Hudspeth and Frances H. Hudspeth, 54-55
 Environment, Understanding Our, John C. Hessler, and Henry C. Shoudy, 292-293
 Equipment, Science Experience with Inexpensive, C. J. Lynde, 291
 Eskew, G. L., *Guinea Pigs and Bugbears*, 395-396
 Excursion, as a Teaching Technique, The, Henry C. Atyeo, 114
- Face, The Story of a, Hillary G. Bailey, 353
 Fairchild, David, *The World Was My Garden*, 116
 Farm Management, R. R. Hudelson, 227
 Featherstonhaugh, Duane, *Press Photography with the Miniature Camera*, 353
 Felt, Ephriam Porter, *Our Shade Trees*, 230
 Feininger, Andreas, *New Paths in Photography*, 353
 Fireman, The, M. C. Carey, 397
 Fisher, Irving, and Emerson, Haven, *How to Live*, 230-231
 Flowers of Field and Garden, Familiar, F. Schuler Mathews, 113
 Fluorescence and Phosphorescence, E. Hirschlaaff, 178
 Forest Neighbors, Edith M. Patch and C. L. Fenton, 57
 Forestry, An Introduction to American, Shirley W. Allen, 293
 Forests, Our Nation's, Rosalie Edge, 113
 Francis, Charlotte A., and Morse, Edna C., *Fundamentals of Chemistry and Applications*, 397
 Fraprie, Frank R., *The American Annual of Photography*, 1940, 353
 Frasier, George Willard, Dolman, Helen, Shoemaker, Francis, and Van Noy, Kathryne, *The How and Why Club; My Club Book*, 352
- Frey, Nina A., *Lasius, the Lucky Ant*, 397
 Frost, George E., *Planets, Stars and Atoms*, 356
 Fry, Walter, and White, John R., *Big Trees*, 113
 Fun for the Family, Jerome S. Meyer, 114
 Funk, Wilfred J., *So You Think Its New*, 114
- Garden, Henry and the, James S. Tippett, 396
 Gardening, *The Story of*, Richardson Wright, 174
 Gates-Strang Health Knowledge Tests, 112
 General Science Tests, D. H. Painter and G. J. Skewes, 235
 General Science, Directed Studies in, D. H. Painter and G. J. Skewes, 235-236
 General Science, *The Teaching of*, Science Masters' Association, 171-172
 Geography on Our Economic Life, Influence of, Douglas C. Ridgley and Sidney E. Ekblaw, 173-174
 Geography on Our Economic Life, Teachers Handbook, Influence of, Douglas C. Ridgley and Sidney E. Ekblaw, 174
 Geography on Our Economic Life, Tests, Influence of, Douglas C. Ridgley and Sidney E. Ekblaw, 174
 Geography, Problems in Economics, Douglas C. Ridgley and Sidney E. Ekblaw, 174
 Gilbert, Margaret Shea, *Biography of the Unborn*, 294
 Glover, Katherine, *America Begins Again*, 293-294
 Goldner, C. A., *Commercial Photography with the Miniature Camera*, 353-354
 Graubard, Mark, *Man the Slave and Master*, 237
 Gray, Carolyn E., and Stackpole, Caroline E., *Study Guide Testbook in Anatomy and Physiology*, 293
 Guinea Pigs and Bugbears, G. L. Eskew, 395-396
 Guinea Pigs? Were We, Symposium, 238
 Gustafson, A. F., Ries, H., Guise, C. H., and Hamilton, Jr., W. J., *Conservation in the United States*, 293
- Hair a Chance, Give Your, John W. King, 291-292
 Hall, Carrie A., *From Hoopskirts, to Nudity*, 230
 Halle, Louis J., Jr., *Birds Against Men*, 230
 Hanger, Ernest O., and Lowe, Paul S., *Directed Studies in Biology*, 234
 Hanger, Ernest O., and Lowe, Paul S., *General Biology Tests*, 234
 Haskins, Caryl P., *Of Ants and Men*, 296
 Hausmann, E. E., and Slack, E. P., *Physics*, 356
 Hausrath, Alfred H., Jr., and Harms, John H., *Consumer Science*, 396-397
 Hawkes, Clarence, *Notes of a Naturalist*, 57
 Hayward, Herman E., *The Structure of Economic Plants*, 233
 Haynes, Williams, *Chemical Pioneers*, 398
 Health and Safety Series, Clifford Lee Brownell, Allen Gilbert Ireland, Helen Fisher Giles and Charles Franklin Towne, 55-56
 Health at Fifty, William H. Robey, 356
 Health Dramatized, Your, W. W. Bauer and Leslie Edgley, 227

- Health Education, Teaching Procedures in, Howard L. Conrad and Joseph F. Meister, 112
 Health in Colleges: Proceedings of the Second National Conference on College Hygiene, Anonymous, 174-175
 Health Knowledge of High School and College Students, H. F. Kilander, 55
 Health Knowledge Tests, Gates-Strang, 112
 Heering, Walther, Night Photography, 354
 —, The Rollei Book, 354
 Henderson, Yandell, Adventures in Respiration. Modes of Asphyxiation and Methods of Resuscitation, 294
 Henrici, Arthur T., The Biography of Bacteria, 356
 Herbs for Northern Gardens, Old-Time, Minnie Watson Kamm, 114
 Hessler, John C., and Shoudy, Henry C., Understanding Our Environment, 292-293
 Hicks, Ami Mali, and Oglesby, Catharine, Color in Action, 355
 High School in the Making, The New, William L. Wrinkle, 358
 High School Practices, Appraisal of Experimental, J. Wayne Wrightstone, 228-229
 Hirschlauff, E., Fluorescence and Phosphorescence, 178
 Hodgman, Charles D., Chemical Tables from the Handbook of Chemistry and Physics, 298
 Hogg, John C., An Introduction to Chemistry, 175
 Home, Science for the, A. M. Low, 296-297
 Hoopskirts to Nudity, From, Carrie A. Hall, 230
 Hopkins, B. S., Davis, R. E., Smith, H. R., McGill, Martin V., and Bradbury, G. M., Chemistry and You, 397
 Houses, All About, Groff Conklin, 395
 Hudelson, R. R., Farm Management, 227
 Hudspeth, Jack, and Hudspeth, Frances H., Elementary Science Workbooks and Handbook for Teachers, 54
 Hygiene, A College Course in, K. Frances Scott, 352
 Hylander, Clarence J., The World of Plant Life, 294
 Illingworth, R. E., Chemical Analysis for Medical Students, 234
 Inorganic Materials, Semi-micro Qualitative Analysis of, William Buell Meldrum, Earl William Flodorf, and Albert Frederick Daggett, 357
 Insect Allies, Eleanor King and Wellmar Pessels, 57
 Insects, A Manual for the Study of, John Henry Comstock, Anna Botsford Comstock, and Glenn W. Herrick, 231
 Instruction, Improving, Thomas H. Briggs, 298
 Interpreting Science Series (3 vol.), Franklin B. Carroll, 395
 Jacques, H. E., Living Things How to Know Them, 395
 Jordan, Stanley R., Modern Portraiture, 353
 Kamm, Minnie Watson, Old-Time Herbs for Northern Gardens, 114
 Kane, Henry B., The Alphabet of Birds, Bugs and Beasts, 112
 Kandel, I. A., Editor, Educational Yearbook of the International Institute of Teachers College, Columbia University, 295-296
 Karfeld, Kurt Peter, My Leica and I, 351
 Kenly, Julie Closson, Little Lives, 117
 Kilander, H. F., Health Knowledge of High School and College Students, 55
 King, Eleanor, and Pessels, Wellmar, Insect Allies, 57
 King, John W., Give Your Hair a Chance, 291-292
 Label, Behind the, Margaret Dana, 115
 Laboratory Techniques of Teaching, Thomas H. Briggs, 352
 Lake, Charles H., Harley, Henry P., and Welton, Louis E., Exploring the World of Science, 231
 Law, Frederick Houk, Civilization Builders, 398
 Learning of the Addition Facts, The Contribution of Generalization to the, C. L. Thiele, 351
 Leica and I, My, Kurt Peter Karfeld, 351
 Lenzen, Victor F., Procedures of Empirical Science, 236
 Lewis, John R., An Outline of First Year College Chemistry, 176
 Life in an Air Castle, Frank M. Chapman, 297-298
 Live, How to, Irving Fisher and Haven Emerson, 230-231
 Lives, Little, Julie Closson Kenly, 117
 Live, The Fight to, Raymond L. Ditmars, 56
 Living Things How to Know Them, H. E. Jacques, 395
 Low, A. M., Science for the Home, 296-297
 Luckiesh, Mathew, Color and Colors, 172
 Lynde, C. J., Science Experience with Inexpensive Equipment, 291
 Man and His Lifebelts, Eric T. Bell, 229
 Man and Society, Emerson P. Schmidt, 178
 Man the Slave and Master, Mark Graubard, 237
 Marconi, The Man and His Wireless, Orrin E. Dunlap, Jr., 232
 Masson, Louis T., Physics Made Easy, 227-228
 Mathematics in the Junior and Senior High School, Enriched Teachings of, Maxie Nave Woodring and Vera Sanford, 178
 Mathews, F. Schuler, Familiar Flowers of Field and Garden, 113
 Mayer, Josephine, and Prideaux, Tom, Never to Die, 355-356
 McClintock, Theodore, The Under Water Zoo, 57
 McCorkle, Paul, Survey of Physical Science, 232
 McVittie, G. C., Cosmological Theory, 177
 Medical Students, Biochemistry for, William Veale Thorpe, 234
 Medical Students, Chemical Analysis for, R. E. Illingworth, 234
 Medicine, the Laity Lectures of the New York Academy of Medicine, Landmarks in, F. R.

- Packard, A. E. Cohn, H. S. Martland, J. J. Walsh, R. Pearl, R. Burbank and L. G. Cole, 357-358
- Meldrum, William Buell, Flosdorf, Earl William, and Daggett, Albert Frederick, Semi-micro Qualitative Analysis of Inorganic Materials, 357
- Melhus, Irving E., and Kent, George C., Elements of Plant Pathology, 297
- Menzel, Donald H., Stars and Planets, Exploring the Universe, 295
- Meteorology, Physical and Dynamical, David Brunt, 398
- Meyer, Jerome S., Fun for the Family, 114
- Microbe Man, The, Eleanor Dooryl, 398
- Microbes, The Story of, Paul William Allen, 296
- Miller, Dayton Clarence, Sparks, Lightning, and Cosmic Rays, 352-353
- Mind, The March of, F. Sherwood Taylor, 297
- Mineral Tables, Arthur S. Eakle, 354
- Money's Worth, Johnny Get Your, Ruth Brindze, 115
- Moon, Truman J., and Mann, Paul B., Biology, 175
- Morris, Percy A., Nature Photography Around the Year, 355
- Mortensen, William, Print Finishing, 353
- Museums of the United States, Development, Methods, and Trends, Educational Work in, Grace Fisher Ramsey, 58
- Natural History, Mysteries of, E. L. Grant Watson, 355
- Naturalist, Notes of a, Clarence Hawkes, 57
- Nature Study, Handbook of, Anna Botsford Comstock, 231-232
- Neblette, C. B., Photography, Its Principle and Practice, 173
- Needham, Joseph, and Pagel, Walter (editors), Background to Modern Science, 232
- Nelson, Eugene W., The Magic Wand of Science, 295
- Neuner, Elsie Flint, Conservation and the Christmas Season, 54
- New, So You Think Its, Wilfred J. Funk, 114
- Nixon, Herman Clarence, Forty Acres and Steel Mules, 116
- Number, The Language of Science, Tobias Dantzig, 294-295
- Nutrition in Biology Classes, Teaching, N. Eldred Bingham, 351
- Nutrition Unit for the Fourth, Fifth, and Sixth Grades of the Elementary School, Our Cereals —A, Mary S. Rose and Bertlyn Bosley, 57
- Packard, F. R., Cohn, A. E., Martland, H. S., Walsh, J. J., Pearl, R., Burbank, R., and Cole, L. G., Landmarks in Medicine, the Laity Lectures of the New York Academy of Medicine, 357-358
- Painter, D. H., and Skewes, G. J., Directed Studies in General Science, 235-236
- Painter, D. H., and Skewes, G. J., General Science Tests, 235
- Palmer, Dewey H., and Crooks, Laurence E., Millions on Wheels, 116
- Palmer, Rachel Lynn, and Alpher, Isidore M., 40,000,000 Guinea Pig Children, 230
- Parkins, E. E., and Whitaker, J. R., Our Natural Resources and Their Conservation, 297
- Park, Orlando, Allee, W. C., and Shelford, V. E., A Laboratory Introduction to Animal Ecology and Taxonomy, 352
- Patch, Edith M., and Fenton, C. L., Forest Neighbors, 57
- Pearl, Raymond, The Natural History of Population, 229-230
- Peattie, Donald Culross, A Child's Story of the World, 112
- Peattie, Donald Culross, A Prairie Grove, 113
- Pendulum Swings Back, The, Marvin M. Black, 173
- Phillips, Harry A., Cockefair, Edgar A., and Graham, James W., Agriculture and Farm Life, 227
- Photo Almanac, 1939, Emile Bruguiere, 237
- Photography, An Encyclopaedia of Modern, Hans Windisch, 354
- Photography Around the Year, Nature, Percy A. Morris, 355
- Photography for Fun and Money, A. Frederick Collins, 227
- Photography, Its Principles and Practice, C. B. Neblette, 173
- Photography, New Paths in, Andreas Feininger, 353
- Photography, Night, Walther Heering, 354
- Photography, 1940, The American Annual of, Frank R. Fraprie, 353
- Photography, Practical and Theoretical, Julian M. Blair, 173
- Photography with the Miniature Camera, Commercial, C. A. Goldner, 353-354
- Photography with the Miniature Camera, Press, Duane Featherstonhaugh, 353
- Physical Science in Modern Life, E. G. Richardson, 356
- Physical Science, Survey of, Paul McCorkle, 232
- Physics, Combined Laboratory Manual and Workbook in, S. G. Cook and Ira C. Davis, 234
- Physics, E. E. Hausmann and E. P. Slack, 356
- Physics, Household, Madalyn Avery, 178
- Physics Made Easy, Louis T. Masson, 227-228
- Physics, Modern, Charles E. Dull, 396
- Physics of Today, John A. Clark, Frederick Russell Gorton, and Francis W. Sears, 231
- Physics, Paul Wessel, 351
- Physics Tests, S. G. Cook and Ira C. Davis, 234
- Physics, The Evolution of Modern, Albert Einstein and Leopold Infeld, 174
- Pictures, News, Jack Price, 173
- Pigman, Augustus, A Story of Water, 113
- Planets, Stars and Atoms, George E. Frost, 356
- Plant Life, The World of, Clarence J. Hylander, 294
- Plant Pathology, Elements of, Irving E. Melhus and George C. Kent, 297

- Plants, The Structure of Economic, Herman E. Hayword, 233
 Population, The Natural History of, Raymond Pearl, 229-230
 Portraiture, Modern, Stanley R. Jordan, 353
 Power, The Development of, Eugene C. Wittick, 236
 Prairie Grove, A, Donald Culross Peattie, 113
 Price, A. Grenfell, White Settlers in the Tropics, 357
 Price, Jack, News Pictures, 173
 Print Finishing, William Mortensen, 353
 Proctor, Mary, Our Stars Month by Month, 236
 Radio Amateur's Handbook, The, A. Frederick Collins, 356
 Ramsey, Grace Fisher, Educational Work in Museums of the United States, Development, Methods and Trends, 58
 Randall, Charles E., and Edgerton, D. Priscilla, Famous Trees, 113
 Rand McNally, Standard Atlas of the World, 173
 Rankel, R. A., Workbook for Elementary Agriculture, 354
 Rats, Lice and History, Hans Zinsser, 298
 Reed, Homer B., Psychology and Teaching of Secondary School Subjects, 236
 Research, The Elements of, Frederick Lawson Whitney, 176
 Resources and Their Conservation, Our Natural, E. E. Perkins and J. R. Whitaker, 297
 Respiration, Modes of Asphyxiation and Methods of Resuscitation, Adventures in, Yandell Henderson, 294
 Reh, Frank, and Wheat, Frank M., Science and Life Series (6 vol.), 395
 Rice, Thurman B., A Textbook of Bacteriology, 176
 Richards, Harold, The Universe Surveyed, 233
 Richards, Horace G., Animals of the Seashore, 355
 Richardson, E. G., Physical Science in Modern Life, 356
 Ridgley, Douglas C., and Eklaw, Sidney E., Influence of Geography on Our Economic Life, 173-174
 ———, Influence of Geography on Our Economic Life, Teachers Handbook, 174
 ———, Influence of Geography on Our Economic Life, Tests, 174
 ———, Problems in Economic Geography, 174
 Robey, William H., Health at Fifty, 356-357
 Rollei Book, The, Walther Heering, 354
 Rose, Mary S., and Bosley, Bertlyn, Our Cereals—A Nutrition Unit for the Fourth, Fifth, and Sixth Grades of the Elementary School, 57
 Safety for Myself and Others, George L. Bush, Theodore W. Ptacek, and John Kovats, Jr., 293
 Schmidt, Emerson P. (Editor), Man and Society, 178
 Science, Adventures in, Harry A. Carpenter, Guy A. Bailey, and Mary Louise Baker, 351
 Science and Life Series (6 vols.), Frank Reh and Frank M. Wheat, 395
 Science: A New Outline, J. W. N. Sullivan, 178
 Science, An Orientation in, C. W. Watkeys and Associates, 233
 Science, Aspects of, Tobias Dantzig, 232
 Science, Background to Modern, Joseph Needham and Walter Pagel, 232
 Science, Exploring the World of, Charles H. Lake, Henry P. Harley and Louis E. Welton, 231
 Science in Progress, G. A. Baitsell, 357
 Science Instruction of the N.E.A., 1938 Proceedings Department of, Symposium, 57-58
 Science Problems, Book II, Wilbur L. Beauchamp, John C. Mayfield, and Joe Young West, 292
 Science, Procedures of Empirical, Victor F. Lenzen, 236
 Science Master's Association, The Teaching of General Science, 171-172
 Science, The Magic Wand of, Eugene W. Nelson, 295
 Scientific Terms, Dictionary of, C. M. Beadnell, 297
 Scientist, The Making of a, Raymond L. Ditmars, 56
 Scott, K. Frances, A College Course in Hygiene, 352
 Sears, Paul B., This Is Our World, 354
 Seashore, Animals of the, Horace G. Richards, 355
 Secondary School Subjects, Psychology and Teaching of, Homer B. Reed, 236
 Shand, S. J., Earth Lore, 172
 Skilling, William T., and Richardson, Robert S., Astronomy, 397
 Slaves by the Billion, Silas Bent, 115
 Starland, Our, C. C. Wylie, 114
 Stars and Planets. Exploring the Universe, Donald H. Menzel, 295
 Stars Month by Month, Our, Mary Proctor, 236
 Steel, Adventures in, Lavinia R. Davis, 230
 Sullivan, J. W. N., Science: A New Outline, 178
 Sun and Moon, Eclipses of the, Frank Dyson and R. v. d. R. Woolley, 298
 Symposium, Modern Wonder Books, 55
 Symposium, 1938 Proceedings Department of Science Instruction of the N.E.A., 57-58
 Symposium, Teaching Aid Bulletins for Elementary Science, 54
 Symposium, U. S. Camera Magazine, Autumn Number, 237
 Symposium, Were We Guinea Pigs?, 238
 Taylor, F. Sherwood, The March of Mind, 297
 Teach, How to, Claude G. Crawford, 358
 Teaching of Science, Third Digest of Investigations in the, Francis D. Curtis, 291
 The Department of Supervisors and Directors of Instruction of the National Education Association, Cooperation, Principles and Practices, Eleventh Yearbook, 296

- Thiele, C. L., The Contribution of Generalization to the Learning of the Addition Facts, 351
 Thorpe, William Veale, Biochemistry for Medical Students, 234
 Tippett, James S., Henry and the Garden, 396
 Trees, Big, Walter Fry and John R. White, 113
 Trees, Famous, Charles E. Randall and D. Priscilla Edgerton, 113
 Trees, Knowing Your, G. H. Collingwood, 294
 Trees, Our Shade, Ephraim Porter Felt, 230
 Tropics, White Settlers in the, A. Grenfell Price, 357
- Unborn, Biography of the, Margaret Shea Gilbert, 294
 Universe Surveyed, The, Harold Richards, 233
- Verrill, A. Hyatt, Strange Birds and Their Stories, 355
 Vocabulary in Textbooks of Science for Secondary Schools, Investigations of, Francis D. Curtis, 291
- Walters, Garnette, and Courtis, S. A., A Picture Dictionary for Children, 396
 Water, A Story of, Augustus Pigman, 113
 Water, The Story of Man's Quest for, Jasper Owen Draffin, 352
 Water, The Wonders of, Marian E. Baer, 398
 Watkeys, C. W., and Associates, An Orientation in Science, 233
 Watson, E. L. Grant, Mysteries of Natural History, 355
 Weldey, Roy A., Your Automobile and You, 116
 Wessel, Paul, Physics, 351
 Wheels, Millions on, Dewey H. Palmer, and Laurence E. Crooks, 116
 Whitney, Frederick Lawson, The Elements of Research, 176
 Williams, Samuel H., A Laboratory and Field Guide to Biology, 176
 Wilson, Sherman R., and Mullins, Mary R., Applied Chemistry, 397
 Windisch, Hans, An Encyclopaedia of Modern Photography, 354
 Wittick, Eugene C., The Development of Power, 236
- Woodring, Maxie Nave, and Sanford, Vera, Enriched Teaching of Mathematics in the Junior and Senior High School, 178
 Woodsman, Bruce and Marcia, William P. Alexander and Maribelle Cormack, 293
 Workers of the WPA Federal Writers' Project in the City of New York, Who's Who in the Zoo, 112
 World, A Child's Story of the, Donald Culross Peattie, 112
 World Is Your Oyster, The, Helen Eva Yates, 351
 World, This Is Our, Paul B. Sears, 354
 World Was My Garden, The, David Fairchild, 116
 WPA Federal Writers' Project, Birds of the World, 237-238
 Wright, Richardson, The Story of Gardening, 174
 Wrightstone, J. Wayne, Appraisal of Experimental High School Practices, 228-229
 ———, Appraisal of Newer Elementary School Practices, 228-229
 Wrinkle, William L., The New High School in the Making, 358
 Wylie, C. C., Our Starland, 114
- Yates, Helen Eva, The World Is Your Oyster, 351-352
 Yates, Raymond F., These Amazing Electrons, 232
 Yearbook, Cooperation, Principles and Practices, Eleventh, The Department of Supervisors and Directors of Instruction of the National Education Association, 296
 Yearbook of the International Institute of Teachers College, Columbia University, Educational Yearbook of the, I. A. Kandel, Editor, 295-296
 Young, Clarence W., Stebbins, G. Ledyard, and Hylander, Clarence John, A Survey in Biological Science, 171
- Zaca Venture, William Beebe, 236
 Zinsser, Hans, Rats, Lice and History, 298
 Zoo, The Under Water, Theodore McClintock, 57
 Zoo, Who's Who in the, Workers of the WPA Federal Writers' Project in the City of New York, 112

, No. 7

a, En-
Junior

Alex-

Project
in the

Culross

Yates,

irchill,

of the
dening,

Experi-

School

hool in

Oyster,

ectrons,

actices,
ors and

1 Edu-

ate of
, Edu-

Editor,

ard, and

n Bio-

98

stock, 57

WPA

f New